FIG.1

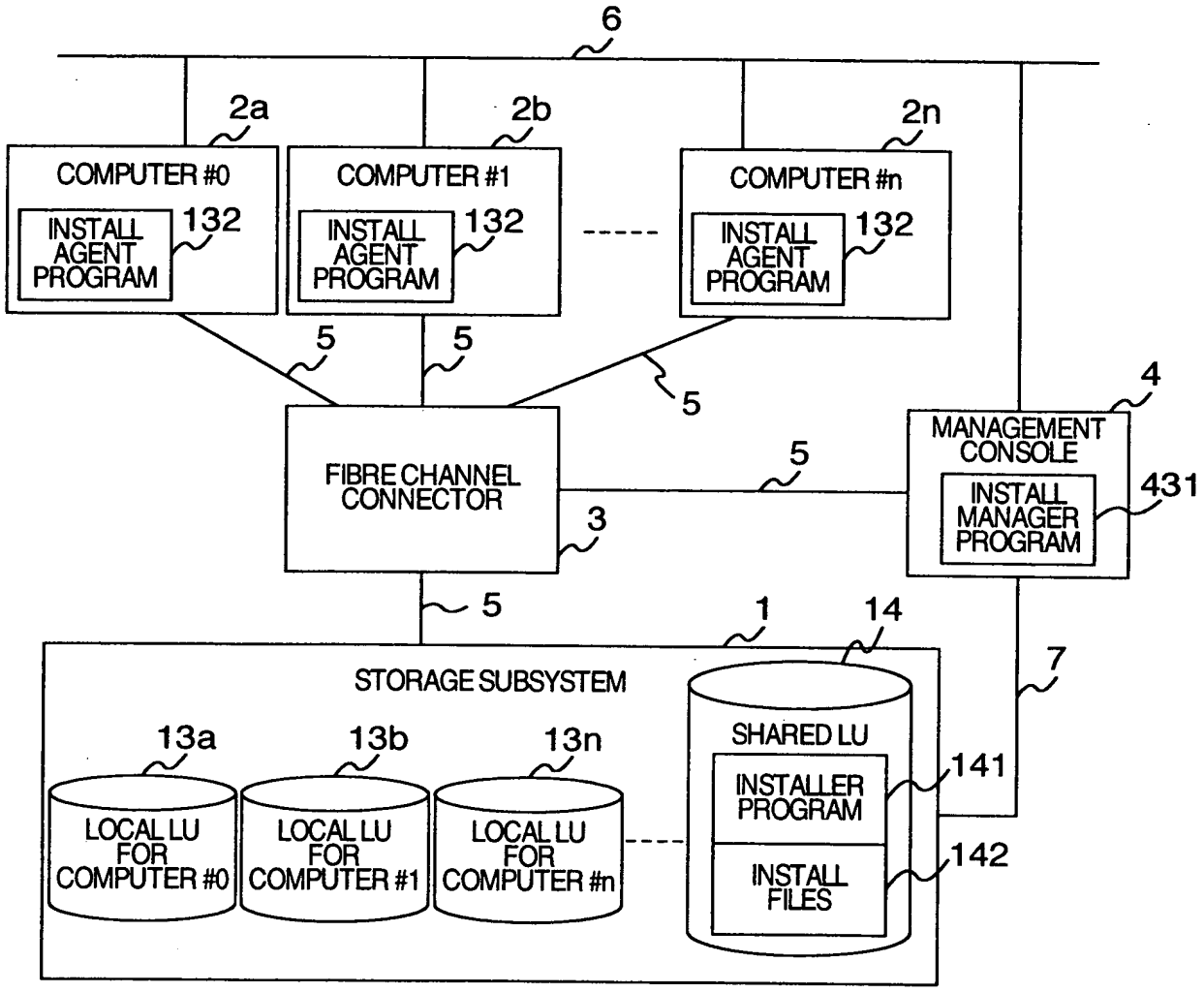

6
2a
2b
2n
COMPUTER #0
INSTALL AGENT PROGRAM
132
COMPUTER #1
INSTALL AGENT PROGRAM
132
COMPUTER #n
INSTALL AGENT PROGRAM
132
5
5
5
4
MANAGEMENT CONSOLE
INSTALL MANAGER PROGRAM
431
FIBRE CHANNEL CONNECTOR
3
5
5
1
14
7
STORAGE SUBSYSTEM
13a
13b
13n
LOCAL LU FOR COMPUTER #0
LOCAL LU FOR COMPUTER #1
LOCAL LU FOR COMPUTER #n
SHARED LU
INSTALLER PROGRAM
141
INSTALL FILES
142

FIG.2

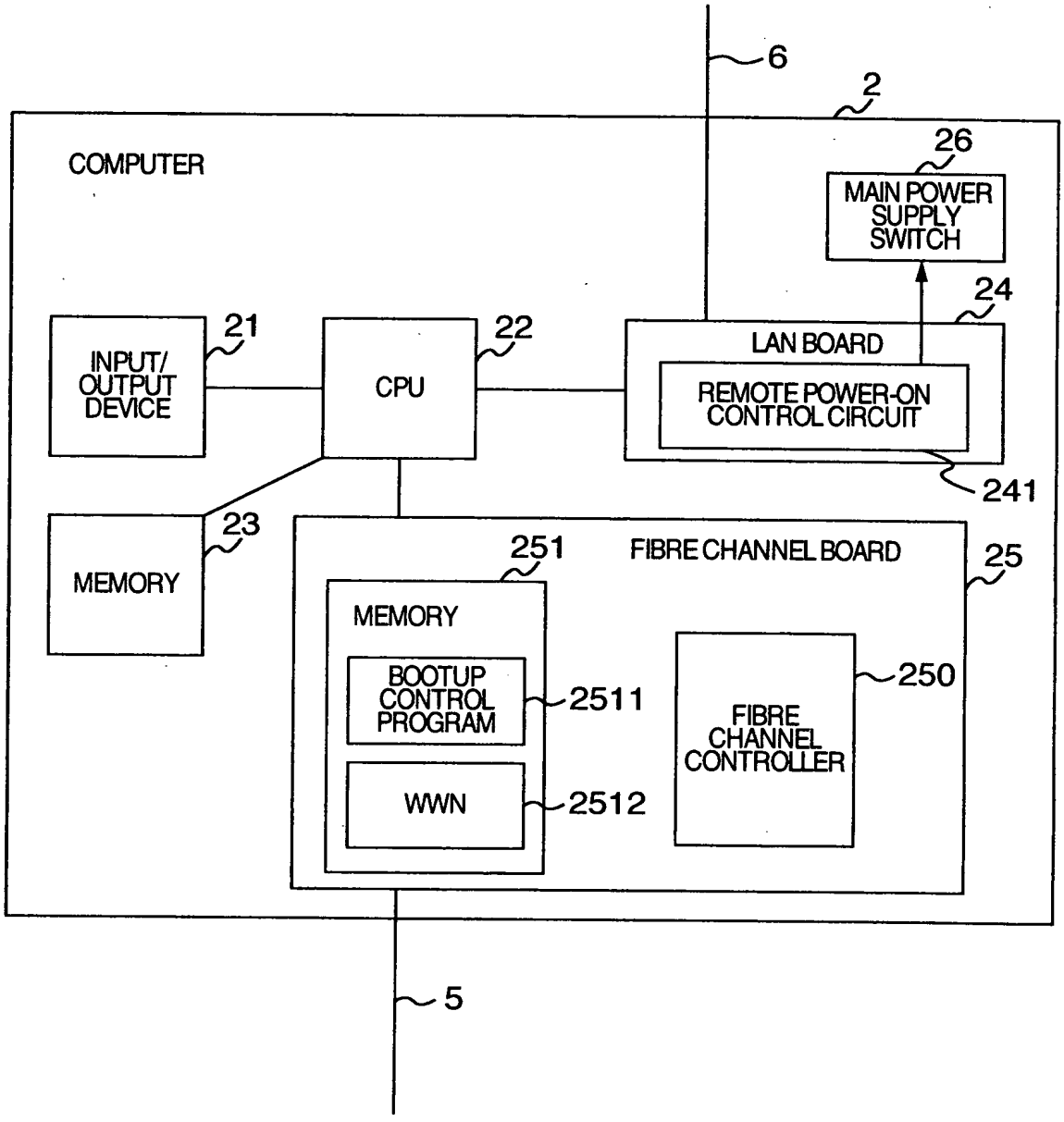

6
2
COMPUTER
26
MAIN POWER SUPPLY SWITCH
24
21
INPUT/ OUTPUT DEVICE
22
CPU
LAN BOARD
REMOTE POWER-ON CONTROL CIRCUIT
241
23
MEMORY
251
FIBRE CHANNEL BOARD
25
MEMORY
BOOTUP CONTROL PROGRAM
2511
WWN
2512
FIBRE CHANNEL CONTROLLER
250
5

FIG.3

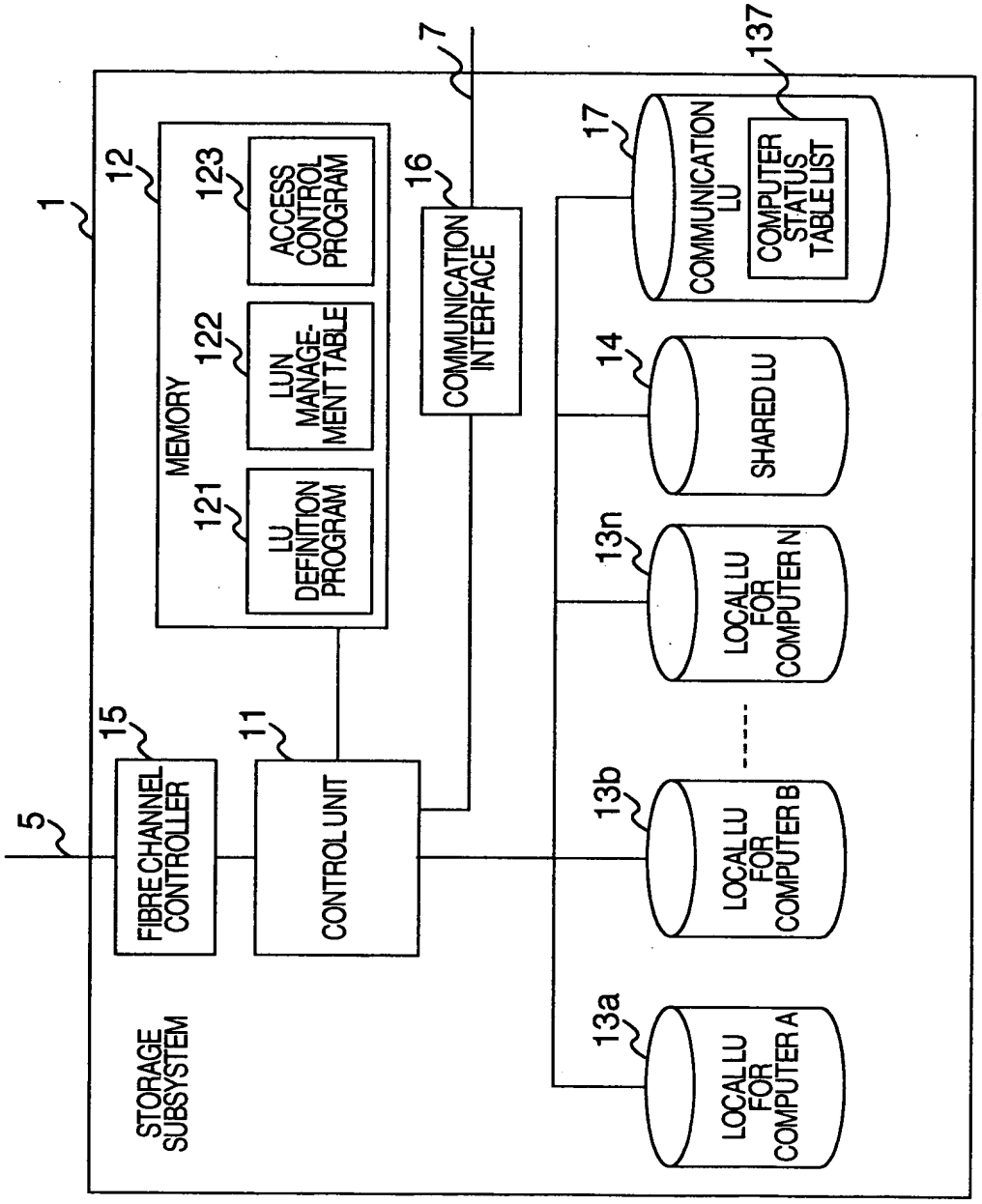

1
5
STORAGE SUBSYSTEM
FIBRE CHANNEL CONTROLLER
15
CONTROL UNIT
11
MEMORY
12
LU DEFINITION PROGRAM
121
LUN MANAGE-MENT TABLE
122
ACCESS CONTROL PROGRAM
123
7
COMMUNICATION INTERFACE
16
17
COMMUNICATION LU
137
COMPUTER STATUS TABLE LIST
SHARED LU
14
LOCAL LU FOR COMPUTER N
13n
LOCAL LU FOR COMPUTER B
13b
LOCAL LU FOR COMPUTER A
13a

FIG.4

122

1221 PORT NO.	1222 TARGET ID	1223 VIRTUAL LUN	1224 INTERNAL LUN	1225 WWN	1226 S_ID	1227 ATTRIBUTE
0	0	0	0	WWNa	S_IDa	PRIVATE
0	0	0	1	WWNb	S_IDb	PRIVATE
⋮	⋮	⋮	⋮	⋮	⋮	⋮
0	0	0	2	WWNn	S_IDn	PRIVATE
0	0	1	k	WWNa	S_IDa	SHARED
0	0	1	k	WWNb	S_IDb	SHARED
⋮	⋮	⋮	⋮	⋮	⋮	⋮
0	0	1	k	WWNn	S_IDn	SHARED
0	0	0	k	WWNz	S_IDz	SHARED

FIG.5

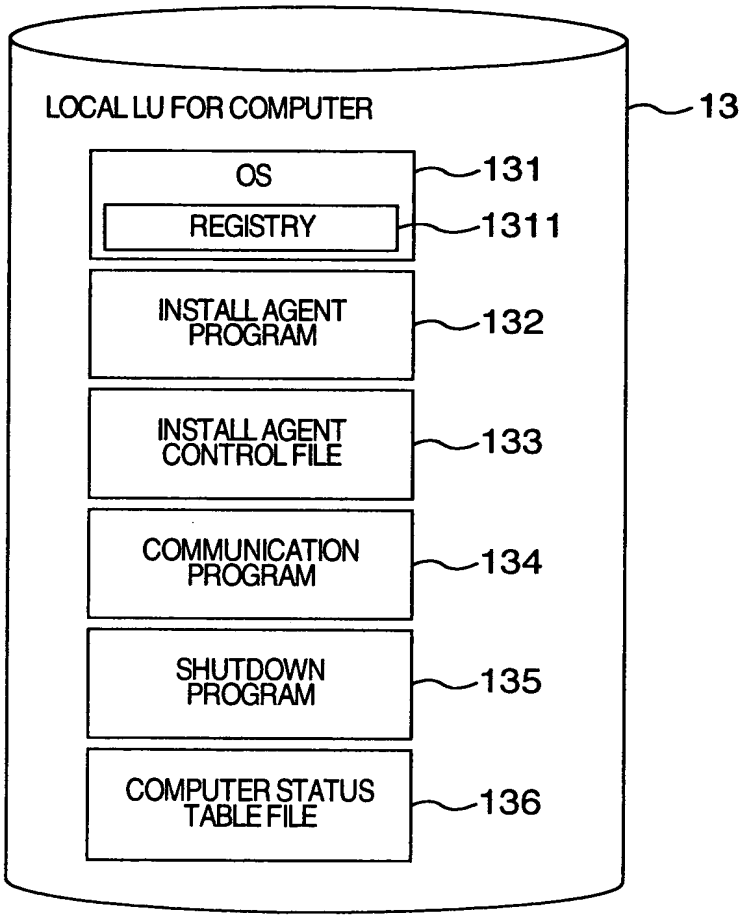

LOCAL LU FOR COMPUTER
13
OS
131
REGISTRY
1311
INSTALL AGENT PROGRAM
132
INSTALL AGENT CONTROL FILE
133
COMMUNICATION PROGRAM
134
SHUTDOWN PROGRAM
135
COMPUTER STATUS TABLE FILE
136

FIG.6

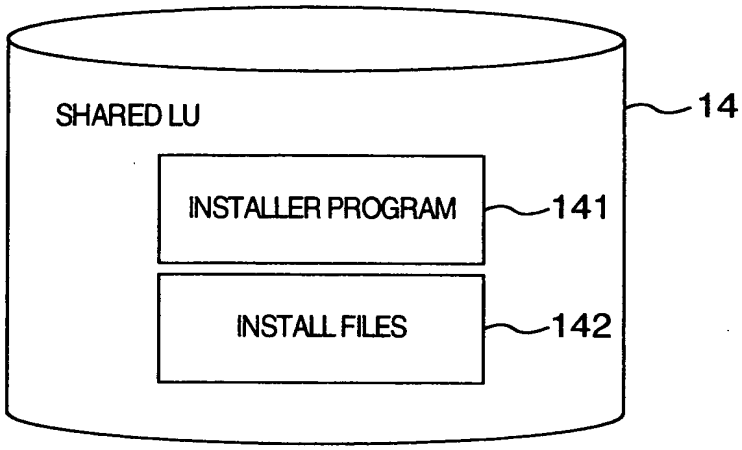


FIG.7

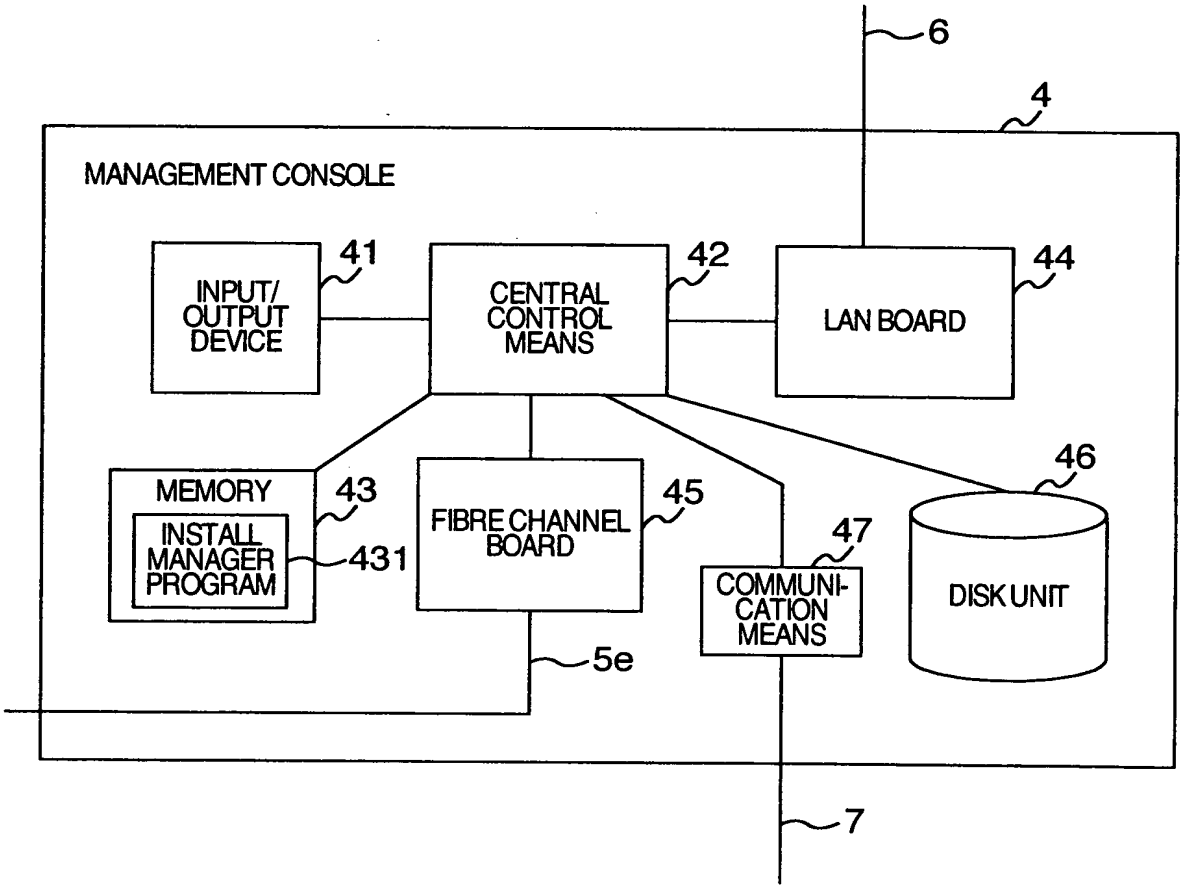

6
4
MANAGEMENT CONSOLE
INPUT/
OUTPUT
DEVICE
41
CENTRAL
CONTROL
MEANS
42
LAN BOARD
44
MEMORY
43
INSTALL
MANAGER
PROGRAM
431
FIBRE CHANNEL
BOARD
45
46
47
COMMUNI-
CATION
MEANS
DISK UNIT
5e
7

FIG.8

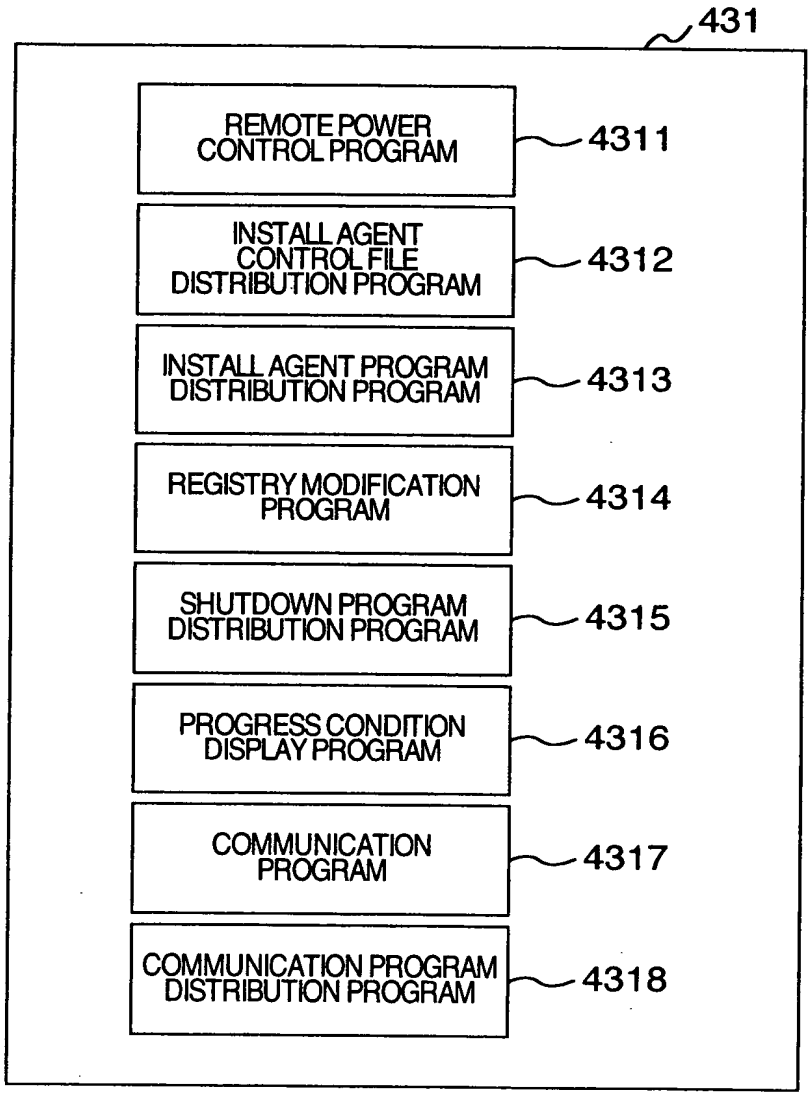

431
REMOTE POWER CONTROL PROGRAM
4311
INSTALL AGENT CONTROL FILE DISTRIBUTION PROGRAM
4312
INSTALL AGENT PROGRAM DISTRIBUTION PROGRAM
4313
REGISTRY MODIFICATION PROGRAM
4314
SHUTDOWN PROGRAM DISTRIBUTION PROGRAM
4315
PROGRESS CONDITION DISPLAY PROGRAM
4316
COMMUNICATION PROGRAM
4317
COMMUNICATION PROGRAM DISTRIBUTION PROGRAM
4318

FIG.9

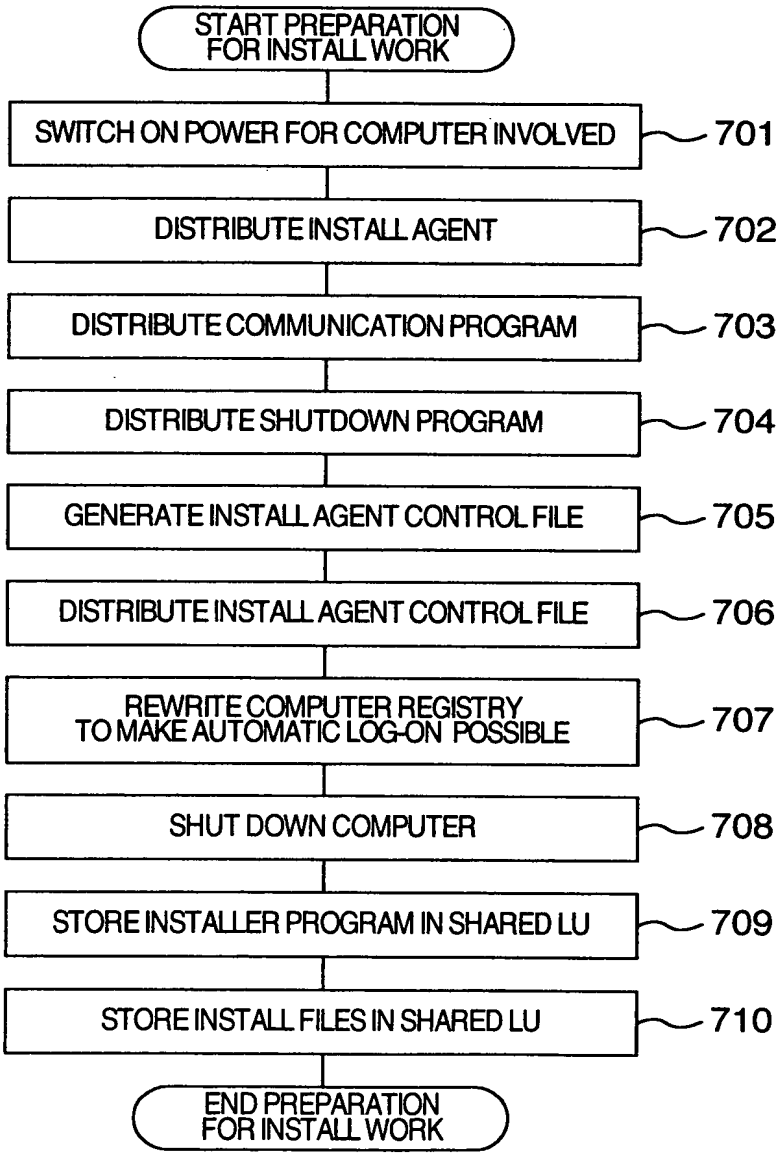
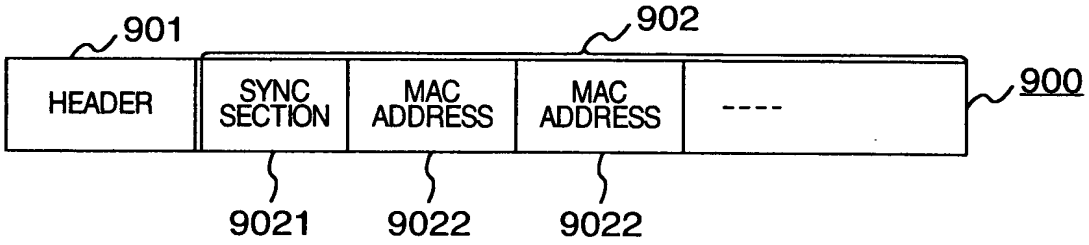

START PREPARATION FOR INSTALL WORK
SWITCH ON POWER FOR COMPUTER INVOLVED
701
DISTRIBUTE INSTALL AGENT
702
DISTRIBUTE COMMUNICATION PROGRAM
703
DISTRIBUTE SHUTDOWN PROGRAM
704
GENERATE INSTALL AGENT CONTROL FILE
705
DISTRIBUTE INSTALL AGENT CONTROL FILE
706
REWRITE COMPUTER REGISTRY TO MAKE AUTOMATIC LOG-ON POSSIBLE
707
SHUT DOWN COMPUTER
708
STORE INSTALLER PROGRAM IN SHARED LU
709
STORE INSTALL FILES IN SHARED LU
710
END PREPARATION FOR INSTALL WORK

FIG.10


901
902
HEADER
SYNC SECTION
MAC ADDRESS
MAC ADDRESS

900
9021
9022
9022

FIG.11

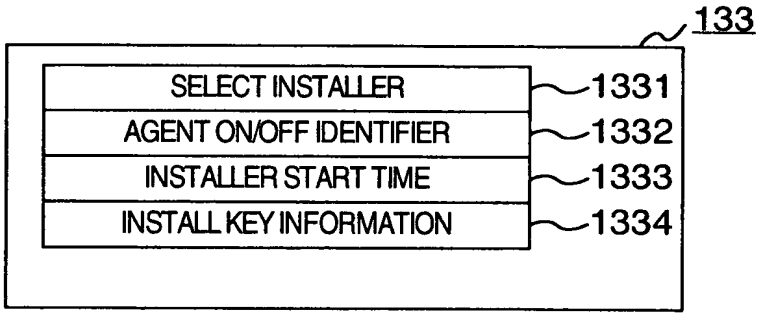

133
SELECT INSTALLER
1331
AGENT ON/OFF IDENTIFIER
1332
INSTALLER START TIME
1333
INSTALL KEY INFORMATION
1334

FIG.12

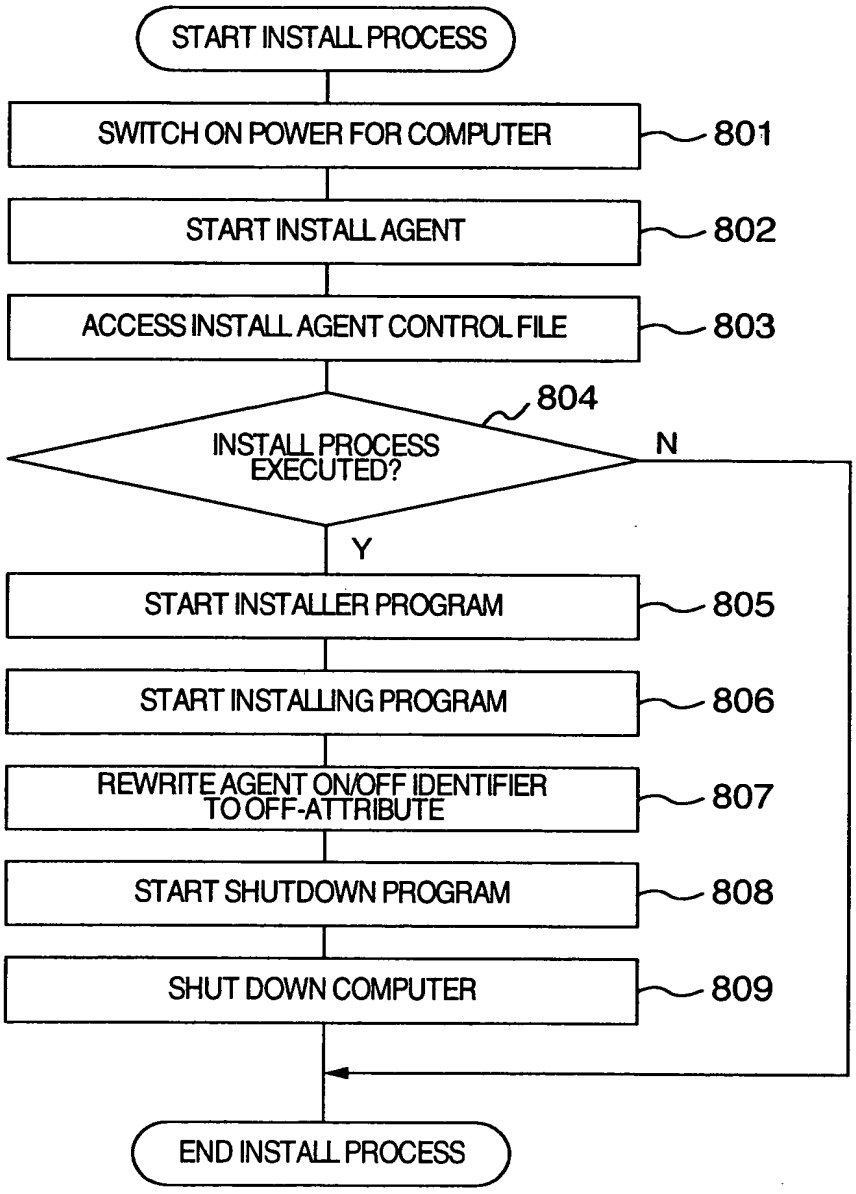

START INSTALL PROCESS
SWITCH ON POWER FOR COMPUTER
801
START INSTALL AGENT
802
ACCESS INSTALL AGENT CONTROL FILE
803
804
INSTALL PROCESS EXECUTED?
N
Y
START INSTALLER PROGRAM
805
START INSTALLING PROGRAM
806
REWRITE AGENT ON/OFF IDENTIFIER TO OFF-ATTRIBUTE
807
START SHUTDOWN PROGRAM
808
SHUT DOWN COMPUTER
809
END INSTALL PROCESS

FIG.13

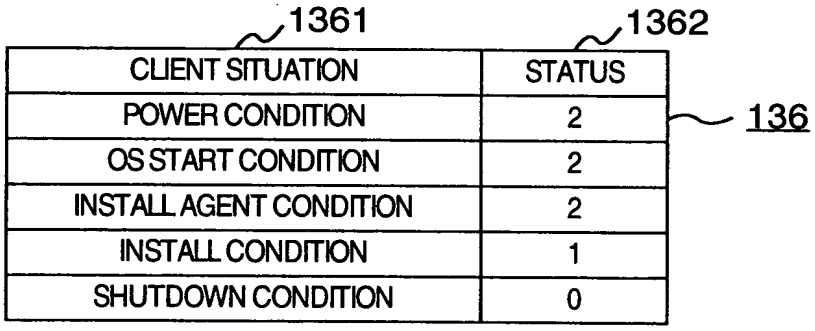


FIG.14

CLIENT SITUATION \ STATUS	0	1	2	3
POWER SUPPLY CONDITION	OFF	*	ON	FAULT OCCURRED
OS START CONDITION	NOT YET STARTED	BEING STARTED	STARTED	FAULT OCCURRED
INSTALL AGENT CONDITION	OFF	*	ON	FAULT OCCURRED
INSTALL CONDITION	NOT YET STARTED	UNDER INSTALLATION	INSTALL OVER	FAULT OCCURRED
SHUTDOWN CONDITION	NOT YET STARTED	UNDER SHUTDOWN	SHUTDOWN OVER	FAULT OCCURRED

FIG.15

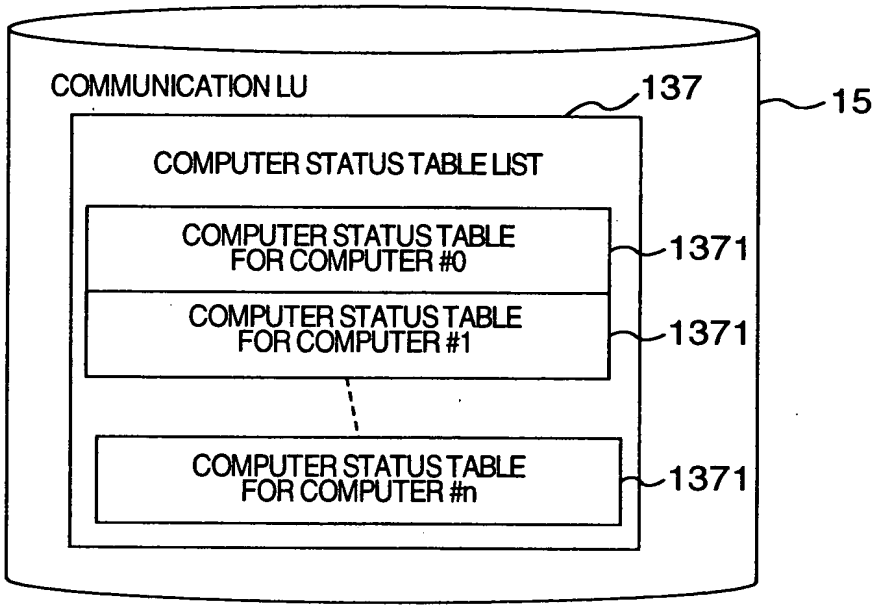

COMMUNICATION LU
137
15
COMPUTER STATUS TABLE LIST
COMPUTER STATUS TABLE FOR COMPUTER #0
1371
COMPUTER STATUS TABLE FOR COMPUTER #1
1371
COMPUTER STATUS TABLE FOR COMPUTER #n
1371

FIG.16

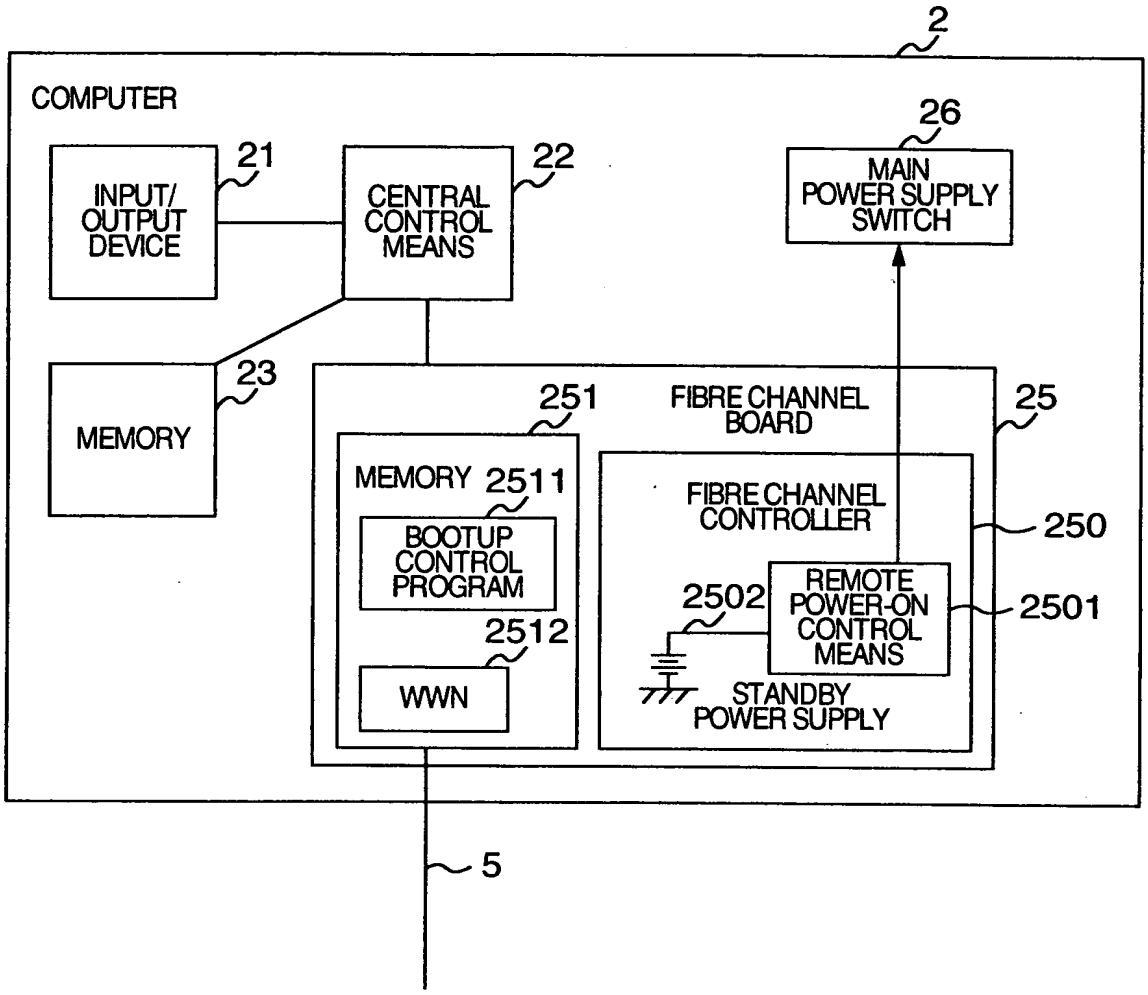
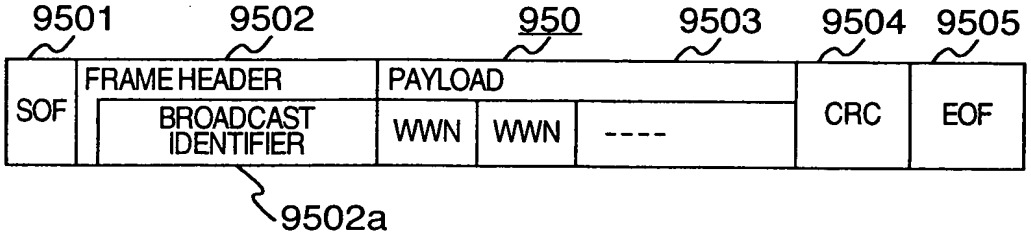

2
COMPUTER
26
MAIN POWER SUPPLY SWITCH
21
INPUT/ OUTPUT DEVICE
22
CENTRAL CONTROL MEANS
23
MEMORY
251
FIBRE CHANNEL BOARD
25
MEMORY 2511
BOOTUP CONTROL PROGRAM
2512
WWN
FIBRE CHANNEL CONTROLLER
250
2502
REMOTE POWER-ON CONTROL MEANS
2501
STANDBY POWER SUPPLY
5

FIG.17


9501
9502
950
9503
9504
9505
SOF
FRAME HEADER
BROADCAST IDENTIFIER
PAYLOAD
WWN
WWN

CRC
EOF
9502a

FIG.18

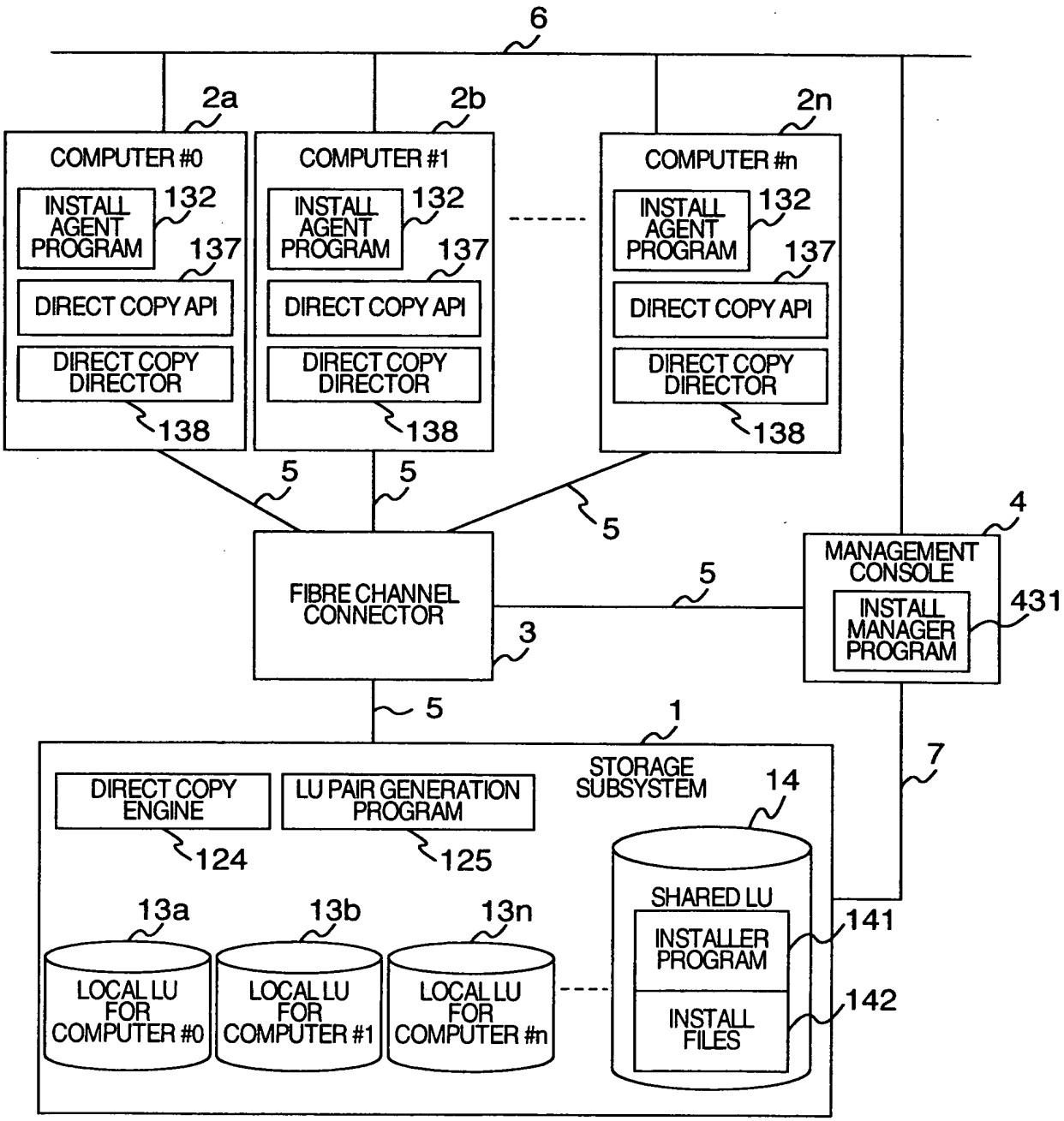

6
2a
2b
2n
COMPUTER #0
COMPUTER #1
COMPUTER #n
INSTALL AGENT PROGRAM
132
137
DIRECT COPY API
DIRECT COPY DIRECTOR
138
5
FIBRE CHANNEL CONNECTOR
3
4
MANAGEMENT CONSOLE
INSTALL MANAGER PROGRAM
431
1
7
STORAGE SUBSYSTEM
14
DIRECT COPY ENGINE
124
LU PAIR GENERATION PROGRAM
125
SHARED LU
INSTALLER PROGRAM
141
INSTALL FILES
142
13a
13b
13n
LOCAL LU FOR COMPUTER #0
LOCAL LU FOR COMPUTER #1
LOCAL LU FOR COMPUTER #n

FIG.19

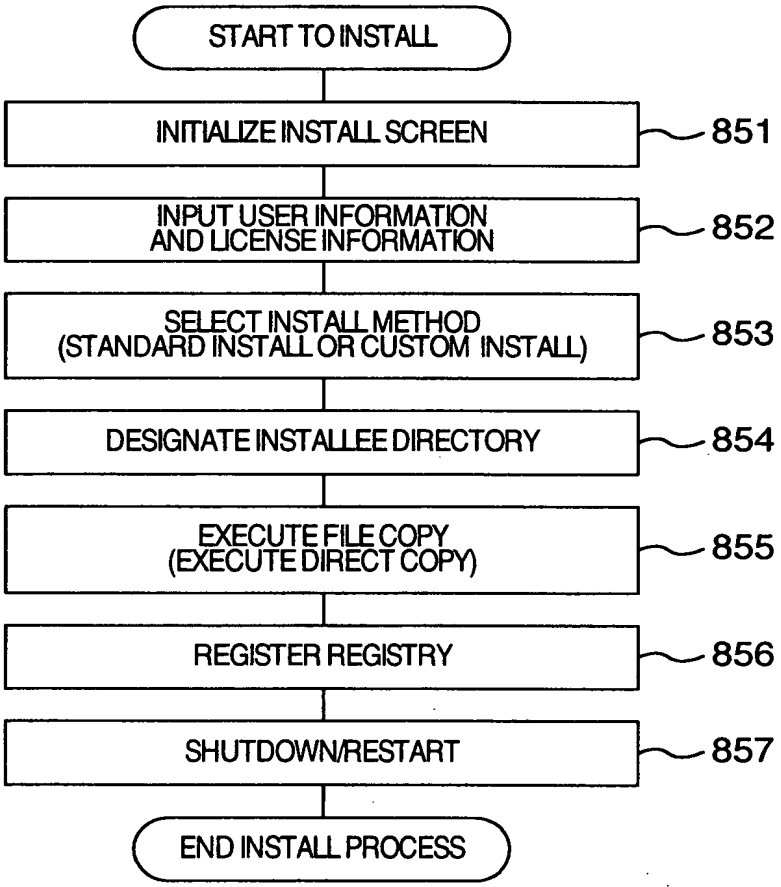

START TO INSTALL
INITIALIZE INSTALL SCREEN
851
INPUT USER INFORMATION AND LICENSE INFORMATION
852
SELECT INSTALL METHOD (STANDARD INSTALL OR CUSTOM INSTALL)
853
DESIGNATE INSTALLEE DIRECTORY
854
EXECUTE FILE COPY (EXECUTE DIRECT COPY)
855
REGISTER REGISTRY
856
SHUTDOWN/RESTART
857
END INSTALL PROCESS

FIG.20

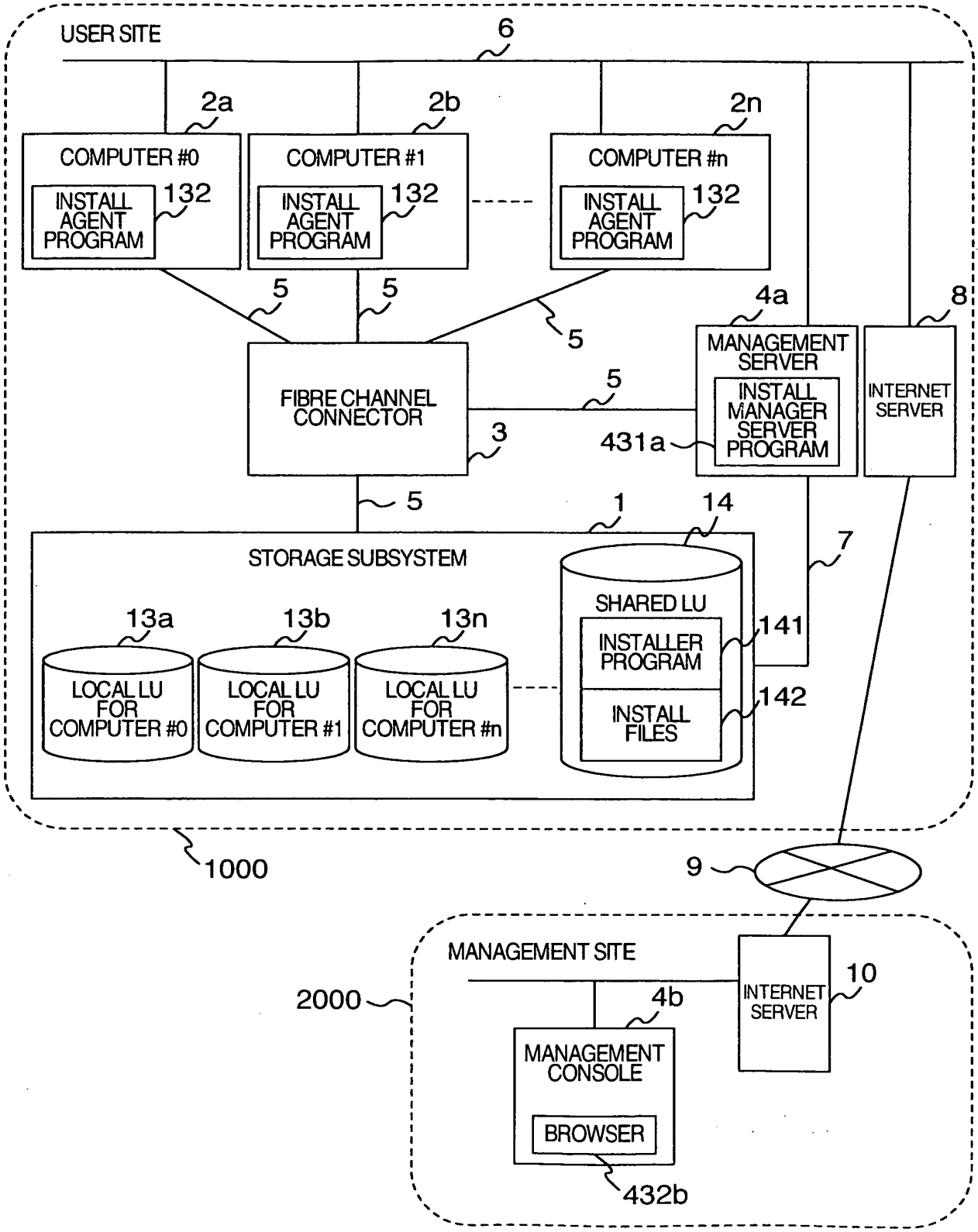
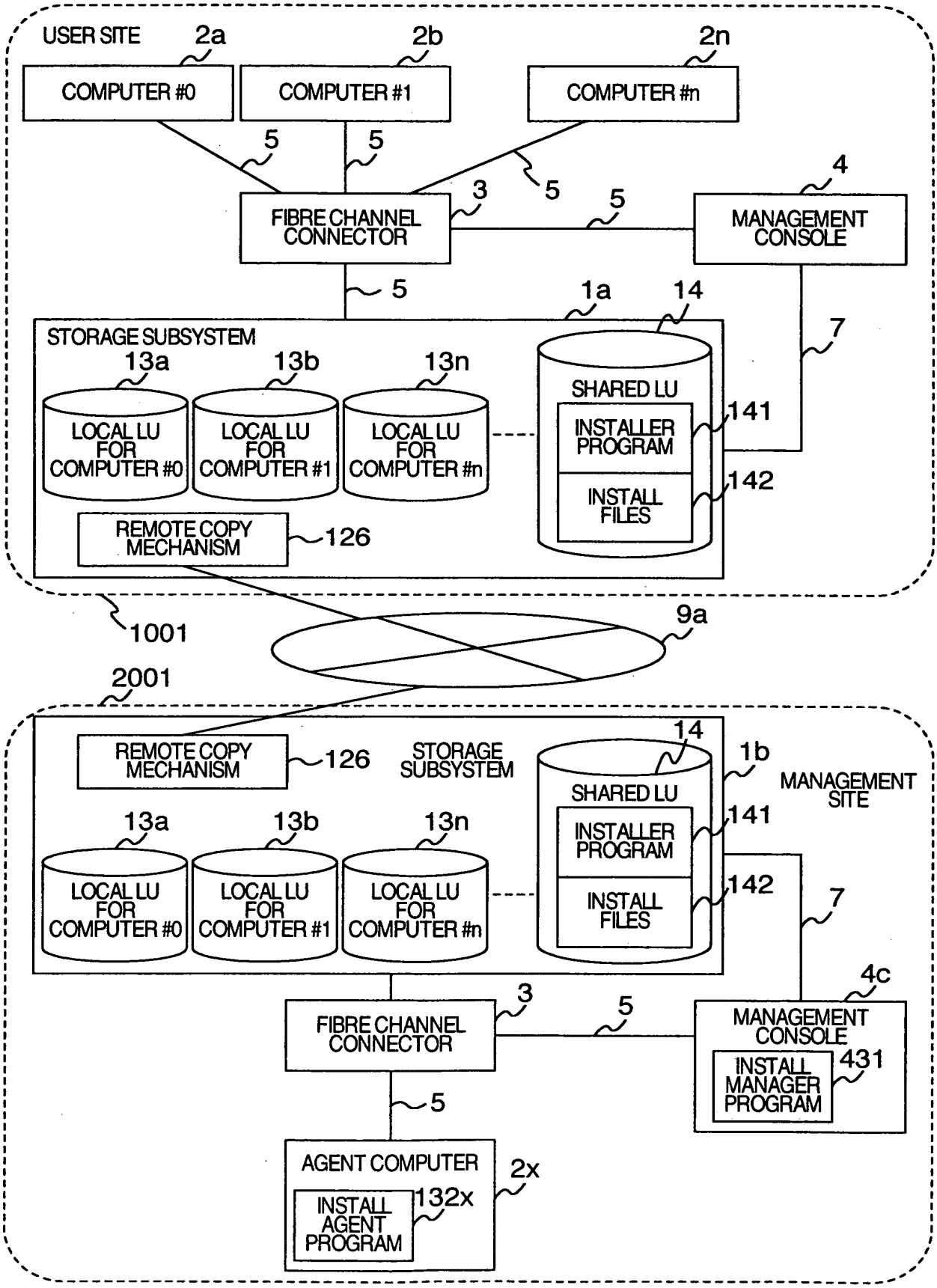

USER SITE
6
2a
2b
2n
COMPUTER #0
INSTALL AGENT PROGRAM
132
COMPUTER #1
INSTALL AGENT PROGRAM
132
COMPUTER #n
INSTALL AGENT PROGRAM
132
5
5
5
4a
MANAGEMENT SERVER
INSTALL MANAGER SERVER PROGRAM
431a
8
INTERNET SERVER
FIBRE CHANNEL CONNECTOR
3
5
5
1
14
7
STORAGE SUBSYSTEM
13a
13b
13n
LOCAL LU FOR COMPUTER #0
LOCAL LU FOR COMPUTER #1
LOCAL LU FOR COMPUTER #n
SHARED LU
INSTALLER PROGRAM
141
INSTALL FILES
142
1000
9
MANAGEMENT SITE
2000
4b
INTERNET SERVER
10
MANAGEMENT CONSOLE
BROWSER
432b

FIG.21


USER SITE
2a
2b
2n
COMPUTER #0
COMPUTER #1
COMPUTER #n
5
5
5
3
5
4
FIBRE CHANNEL CONNECTOR
MANAGEMENT CONSOLE
5
1a
14
7
STORAGE SUBSYSTEM
13a
13b
13n
SHARED LU
LOCAL LU FOR COMPUTER #0
LOCAL LU FOR COMPUTER #1
LOCAL LU FOR COMPUTER #n
INSTALLER PROGRAM
141
INSTALL FILES
142
REMOTE COPY MECHANISM
126
1001
9a
2001
REMOTE COPY MECHANISM
126
STORAGE SUBSYSTEM
14
1b
MANAGEMENT SITE
SHARED LU
13a
13b
13n
INSTALLER PROGRAM
141
LOCAL LU FOR COMPUTER #0
LOCAL LU FOR COMPUTER #1
LOCAL LU FOR COMPUTER #n
INSTALL FILES
142
7
4c
FIBRE CHANNEL CONNECTOR
3
5
MANAGEMENT CONSOLE
INSTALL MANAGER PROGRAM
431
5
AGENT COMPUTER
2x
INSTALL AGENT PROGRAM
132x